

L Number	Hits	Search Text	DB	Time stamp
1	2861	((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.	USPAT; US-PGPUB	2003/09/24 10:54
2	1992	((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.	USPAT; US-PGPUB	2003/09/24 10:55
3	4739	((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)	USPAT; US-PGPUB	2003/09/24 10:55
4	963702	pipe or conduit or tube or hose	USPAT; US-PGPUB	2003/09/24 10:56
5	81619	strap	USPAT; US-PGPUB	2003/09/24 10:56
6	399974	seal	USPAT; US-PGPUB	2003/09/24 10:56
7	1474	(((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal	USPAT; US-PGPUB	2003/09/24 10:56
8	110	(((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap	USPAT; US-PGPUB	2003/09/24 10:56
9	1484	(((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose)	USPAT; US-PGPUB	2003/09/24 12:40
10	922	(((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and (((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose)))	USPAT; US-PGPUB	2003/09/24 10:56
11	40	(((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose)))	USPAT; US-PGPUB	2003/09/24 10:59
12	10	("3814135" "3929152" "3935877" "3963054" "4141574" "4356839" "4566481" "4651771" "4727900" "5033501").PN.	USPAT	2003/09/24 10:58
13	70	(((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) not ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose))))))	USPAT; US-PGPUB	2003/09/24 11:04

19	29	((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and bayonet) not ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose))))))	USPAT; US-PGPUB	2003/09/24 11:38
20	1548	((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and bayonet) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose))))))	USPAT; US-PGPUB	2003/09/24 11:38
21	759	((138/106) or (138/107) or (138/112)).CCLS.	USPAT; US-PGPUB	2003/09/24 11:38

22	623	(((((138/106) or (138/107) or (138/112)).CCLS.) not ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and bayonet) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose)))))))))	USPAT; US-PGPUB	2003/09/24 12:39
23	30	("1220343" "2215283" "2352145" "2655088" "2894773" "2906294" "3370815" "3375856" "3761600" "3787016" "3924676" "4032246" "4090686" "4115966" "4126012" "4146203" "4391426" "4516296" "4530478" "4718459" "4960253" "5039039" "5052474" "5102073" "5111770" "5215281" "5564658" "5593115" "5961248" "6227757").PN.	USPAT	2003/09/24 11:40
24	4	("3872881" "4643379" "4773451" "4781255").PN.	USPAT	2003/09/24 11:43
25	1949	((248/57) or (248/68.1) or (248/71)).CCLS.	USPAT; US-PGPUB	2003/09/24 12:03
26	12	("2661483" "2843363" "2855648" "2873082" "3132831" "3226069" "3964707" "4957251" "5267710" "5443232" "5564659" "5615850").PN.	USPAT	2003/09/24 12:08
27	6	("1213865" "1791420" "2788188" "2824312" "4717101" "4909461").PN.	USPAT	2003/09/24 12:17
28	2171	(((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and bayonet) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose))))))))) or (((138/106) or (138/107) or (138/112)).CCLS.)	USPAT; US-PGPUB	2003/09/24 12:37

29	4078	(((248/57) or (248/68.1) or (248/71)).CCLS.) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and bayonet) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose)))))) or (((138/106) or (138/107) or (138/112)).CCLS.))	USPAT; US-PGPUB	2003/09/24 12:39
30	271	(((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose) not (((248/57) or (248/68.1) or (248/71)).CCLS.) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and bayonet) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) or ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and strap) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and seal) and ((((((138/106) or (138/107) or (138/112) or (138/89) or (220/314)).CCLS.) or (((220/234) or (220/235) or (220/236) or (220/254.3) or (220/254.8) or (220/259.3) or (220/293) or (220/295) or (220/304)).CCLS.)) and (pipe or conduit or tube or hose)))))) or (((138/106) or (138/107) or (138/112)).CCLS.))	USPAT; US-PGPUB	2003/09/24 12:44

	Document ID	Current OR	Current XRef
1	US 5383495 A	138/89	137/296; 138/96T
2	US 3963054 A	138/89	277/329; 277/520
3	US 3814135 A	138/89	138/96T
4	US 20010037835 A1	138/106	138/108; 138/112; 138/116; 138/117; 138/89
5	US 6390135 B1	138/89	138/106; 138/108; 138/110; 138/112; 138/116; 138/117
6	US 6363973 B1	138/89	138/90; 138/96R
7	US 6135156 A	138/89	138/109
8	US 5938056 A	215/237	220/254.3; 220/254.6
9	US 4887646 A	138/90	138/89; 138/96R; 73/49.5; 73/49.8
10	US 4848458 A	166/92.1	138/89; 166/93.1; 166/94.1; 285/901
11	US 4411312 A	166/75.13	220/293
12	US 4077250 A	73/49.8	138/89; 138/90; 220/240
13	US 6305424 B1	138/107	138/106; 248/67.7; 248/68.1; 248/74.1; 248/74.4
14	US 5593115 A	248/68.1	248/200.1; 248/906; 52/220.1

	Document ID	Current OR	Current XRef
15	US 5052474 A	165/67	165/162; 248/68.1
16	US 4899965 A	248/68.1	138/106; 138/107; 138/111; 174/71R
17	US 4643379 A	248/49	248/68.1
18	US 1845836 A	138/106	138/157; 248/55
19	US 1782774 A	138/114	138/106; 138/148; 138/DIG.4; 188/204R; 403/206; 403/207
20	US 20030042371 A1	248/57	52/220.8; 52/696
21	US 6402096 B1	248/68.1	24/271; 248/74.1; 248/74.4
22	US 6241200 B1	248/68.1	248/74.4
23	US 6012685 A	248/68.1	
24	US 5971329 A	248/68.1	248/316.7; 248/56; 248/65
25	US 5615850 A	248/68.1	211/26; 248/909
26	US 2843363 A	165/67	165/137; 165/178; 165/56; 248/68.1
27	US 2661483 A	4/695	248/57; 248/68.1
28	US 5060892 A	248/57	248/68.1; 4/695; 4/696
29	US 4909461 A	248/68.1	248/57

	Document ID	Current OR	Current XRef
30	US 1791420 A	248/274.1	248/56; 248/57
31	US D293203 S	D8/354	248/68.1; D8/349; D8/373; D8/380
32	US 3809350 A	248/57	138/106; 52/219
33	US 3160175 A	248/68.1	138/109; 138/96R; 24/339; 249/219.1; 269/287; 269/904
34	US 1967660 A	248/71	